IN THE SPECIFICATION:

The abstract is amended as follows:

-- ~~The invention relates to~~In the generating of images by means of a two-dimensional field of image sensors, notably by means of a flat dynamic X-ray detector FDXD, adherence. ~~In order to adhere~~ to with the maximum data rate G_{max} of an evaluation unit (1) ~~it is necessary to satisfy~~requires satisfying the relation $\Delta x . \Delta y . f / b \leq G_{max}$ between the width Δx and the height Δy of a sub-region of the image sensor read out, the imaging rate f and the binning factor b. In conformity with the method, parameters defining the size, position and/or shape of the sub-region can be preset at will, the other variables of the inequality being adapted, if necessary, in such a manner that the inequality remains satisfied. In the context of the method there is also performed a mosaic calibration during which calibration images of the complete image sensor are composed from calibration images of sub-regions.--